



Docket No.: 1739-0183PUS1

(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Klaus KRUCKENHAUSER et al.

Application No.: 10/580,275

Confirmation No.: N/A

Filed: May 25, 2006

Art Unit: N/A

For: VACUUM EXTRACTION UNIT FOR A

DEVICE USED TO STRUCTURE THE

SURFACE OF A WORKPIECE BY MEANS OF

RADIATION

Examiner: Not Yet Assigned

LETTER

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Subsequent to the filing of the above-identified application on May 25, 2006, attached hereto is an English Translation of the International Preliminary Report on Patentability issued by the International Bureau on behalf of the International Searching Authority. Please make this document of record for the above-identified application.

Application No.: 10/580,275 Docket No.: 1739-0183PUS1

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or to credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. § 1.16 or under 37 C.F.R. § 1.17; particularly, extension of time fees.

Dated: December 7, 2006

Respectfully submitted,

Paul C. Lewis

By

Registration No.: 43,368

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Attachment(s) PCT/1B/338 PCT/IPEA/409

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PATENT COOPERATION TREATY

To:

PCT

NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPTER I OR CHAPTER II
OF THE PATENT COOPERATION TREATY)

(PCT Rules 44bis.3(c) and 72.2)

From the INTERNATIONAL BUREAU

WAGNER, Bernhard, Peter Ter Meer, Steinmeister & Partner GbR

Mauerkircherstrasse 45 81679 München ALLEMAGNE

EINGEGANGEN TER MEER - STEINMEISTER & PARTNER

15. NOV. 2006

Date of mailing (day/month/year) 09 November 2006 (09.11.2006)	Filet annuarement
Applicant's or agent's file reference STK 64 EP - Wa/ki	IMPORTANT NOTIFICATION
International application No. PCT/EP2004/004789	International filing date (day/month/year) 05 May 2004 (05.05.2004)
Applicant STORK	PRINTS AUSTRIA GMBH et al

 Transmittal of the translation to the appl
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The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter I).

The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).

2. Transmittal of the copy of the translation to the designated or elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

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The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AE, AG, AL, AM, AP, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EA, EC, EE, EG, EP, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume Π of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

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PATENT COOPERATION TREATY

TRANSLATION INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION	See Form PCT/IPEA/416		
STK 64 EP - Wa/ki				
International application No.	International filing date (day/month/year	·		
PCT/EP2004/004789	05.05.2004	27.11.2003		
International Patent Classification (IPC) or nati	onal classification and IPC			
B41C1/05, B23K26/14				
Applicant STORK PRINTS AUSTRIA	CMPU			
STORE FRINTS AUSTRIA	Grida	•		
This report is the international preling under Article 35 and transmitted to the second control of the se		y this International Preliminary Examining Authority		
2. This REPORT consists of a total of	6 sheets. in	cluding this cover sheet.		
3. This report is also accompanied by A				
a. (sent to the applicant and	to the International Bureau) a total of	sheets, as follows:		
(been amended and are the basis for this report and/or		
		see Rule 70.16 and Section 607 of the Administrative		
the disclosure in the	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental			
Box.				
b (sent to the International	Bureau only) a total of (indicate type and	number of electronic carrier(s))		
		, containing a sequence listing and/or tables		
related thereto, in computer Section 802 of the Administ	•	Supplemental Box Relating to Sequence Listing (see		
4. This report contains indications relati	ng to the following items:			
Box No. I Basis of the	report			
Box No. II Priority	•			
	shment of oninion with sugged to nevel a	inventive step and industrial applicability		
		inventive step and industrial applicability		
	ty of invention			
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability: citations and explanations supporting such statement			
Box No. VI Certain doc	ruments cited			
Box No. VII Certain defects in the international application				
Box No. VIII Certain obs	ervations on the international application			
Date of submission of the demand	Date of completion	on of this report		
Name and mailing address of the IPEA/EP	Authorized office	ч		
		•		
Facsimile No.	Telephone No.			

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/EP2004/004789

Box	No. I	Basis of the report		
1.		regard to the language, this report is based on the internationated under this item.	onal application in the language in	which it was filed, unless otherwise
		This report is based on translations from the original language which is the language of a translation furnished for the purpose.		· · · · · · · · · · · · · · · · · · ·
		international search (Rule 12.3 and 23.1(b))		
		publication of the international application (Rule 12.4))	
		international preliminary examination (Rule 55.2 and	/or 55.3)	
2.	rece	regard to the elements of the international application, this iving Office in response to an invitation under Article 14 are report):		
	\boxtimes	the international application as originally filed/furnished the description:		
		pages 3, 7-19		as originally filed/furnished 26.08.2004 with letter
		pages* 2	received by this Authority on	of 26.08.2004 22.09.2005 with letter
		pages* 4, 4a, 5, 6	received by this Authority on	of 22.09.2005
	\boxtimes	the claims:		÷
		nos.		as originally filed/furnished
		nos.*	as amended (togethe	er with any statement) under Article 19
ļ		nos.* 1-22		22.09.2005 with letter
		nos.*		
	\square		_ received by this realitionly on	
		the drawings:		
		sheets 1/9-9/9		as originally filed/furnished
		sheets*	received by this Authority on	
		sheets*	received by this Authority on	
		a sequence listing and/or any related table(s) - see Supplem	nental Box Relating to Sequence I	isting.
3.	\boxtimes	The amendments have resulted in the cancellation of:		
		the description, pages		· · · · · · · · · · · · · · · · · · ·
		the claims, nos. 23, 24		
		the drawings, sheets/figs		····
		the sequence listing (specify):		
		any table(s) related to sequence listing (specify):		
4.		This report has been established as if (some of) the amen they have been considered to go beyond the disclosure as f		
		the description, pages		
		the claims, nos.		
		the drawings, sheets/figs		
		<u> </u>		
	the sequence listing (specify): any table(s) related to sequence listing (specify):			
*	76:4	em 4 applies, some or all of those sheets may be marked "sug		
Ь	,, ,,	an engrico, armit or the of those ancera may be marked. Suf	zeraestett.	

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/EP2004/004789

Box No. II	I Non-establishment of opinio	on with regard to novelty, inventive step and industrial applicability		
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:				
ᆜ	the entire international application			
\boxtimes	claims Nos. 2			
becaus	e;			
	the said international application, or the			
	relate to the following subject matter	which does not require an international preliminary examination (specify):		
	the description, claims or drawings (ii) are so unclear that no meaningful opin	ndicate particular elements below) or said claims Nos. 2 nion could be formed (specify):		
		•		
	the claims, or said claims Nos.	are so inadequately supported	i	
<u>}</u>	by the description that no meaningful	opinion could be formed.		
	no international search report has bee	n established for said claims Nos.	_	
	the nucleotide and/or amino acid seq Instructions in that:	uence listing does not comply with the standard provided for in Annex C of the Administrati	ive	
	the written form	has not been furnished		
		does not comply with the standard		
	the commuter d-bl- f	has not been furnished		
	the computer readable form	has not been furnished		
		does not comply with the standard		
		nd/or amino acid sequence listing, if in computer readable form only, do-not comply with n Annex C-bis of the Administrative Instructions.	the	
	See Supplemental Box for further de	ails.		

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/EP2004/004789

Box No. V Reasoned statement und citations and explanation			ticle 35(2) with regard to novelty, inventive step or industrial applicability;		
1.	Statement				
	Novelty ((N)	Claims	1, 3-22	YES
			Claims		NO
	Inventive	step (IS)	Claims	1, 3-22	YES
			Claims		NO
	Industria	l applicability (IA)	Claims	1, 3-22	YES
			Claims		NO

- 2. Citations and explanations (Rule 70.7)
 - 1. Claim 1:
 - 1.1 Prior art:

D1 (EP-A-1 090 709) and D2 (DE-A-3 923 829), both of which are cited in the description, disclose a vacuum unit for abraded or decomposition products that form in a device for structuring a surface of a workpiece by means of laser radiation. D2 discloses, in addition, a hood having front edges of lateral walls, leading walls and a vacuum channel that has an inlet opening according to the present claim 1.

1.2 Problem:

The problem addressed by the application is that of providing another vacuum unit of the known type which permits abraded and/or decomposition products that form during the engraving process to be reliably removed from the interaction zone between the laser beam and the workpiece, thereby practically entirely eliminating a build-up of

PCT/EP2004/004789

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

these products on the workpiece and/or the vacuum unit.

1.3 Solution:

The specific combination of all the features according to claim 1, in particular, the specific embodiment of the hood having two lateral walls, leading walls extending transversally thereto and a leading wall that has a convex, cylindrical curvature and an opening for a machining beam according to the last paragraph of claim 1, is neither described by nor obvious from the prior art, and an inventive step within the meaning of PCT Article 33 is therefore involved.

2. Claims 3 to 22:

Dependent claims 3 to 22 define advantageous embodiments of a vacuum unit, each of which includes all the features of claim 1.

International application No.
PCT/EP2004/004789

Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of: \overline{III}

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

Clarity:

- The application fails to meet the requirements of PCT Article 6 because dependent claim 2 is not clear.
- The following feature of device claim 2 relates to a method of using the device and not to the definition of the device by means of its technical features:

"the front edges of the two lateral walls have a contour that is adapted to the contour of the surface of a workpiece to be machined".

A workpiece to be machined is not a component of the claimed vacuum unit and therefore cannot define a feature of the vacuum unit itself. The claimed limitations are therefore not clear from the present claim 2 (PCT Article 6).